

## A B S T R A C T

## A METHOD OF RESTORING PARTIALS OF A SOUND SIGNAL

5       The present invention relates to a method for restoring a partial between a peak  $P_i$  and a peak  $P_{i+N}$  whose frequency and phase are known. The method (1) comprises the steps of:

- 10       • estimating (2) the frequency  $\hat{\omega}$  of each of the missing peaks  $P_{i+1}$  to  $P_{i+N-1}$  of this partial;
- calculating (3) the phase  $\hat{\phi}$  from peak to peak, from the phase of the peak  $P_i$  to that of the peak  $P_{i+N}$ , for all the frequencies  $\hat{\omega}$  previously estimated;
- 15       • calculating (4) the phase error  $err\phi$  between the calculated phase  $\hat{\phi}$  and the known phase at the same peak  $P_{i+N}$ ;
- correcting (5) each calculated phase  $\hat{\phi}$  by a value that is a function of the phase error  $err\phi$ .

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